

Listing of Claims: No amendments made herein.

1. (PREVIOUSLY PRESENTED) A position information management system managing position information of a mobile body, comprising:

a terminal measuring the position of the mobile body, encrypting measured position information by predetermined encryption means and transmitting the encrypted position information; and

a position recording apparatus, remotely located from the terminal, communicating with the terminal through a radio network, receiving the encrypted position information transmitted from the terminal through the radio network and recording the encrypted position information in an encrypted state,

wherein the position recording apparatus can decrypt the previously recorded encrypted position information only after the terminal sends a key used to decrypt the previously recorded encrypted position information to the position recording apparatus and the position recording apparatus receives the key from the terminal.

2. (PREVIOUSLY PRESENTED) The position information management system according to claim 1, wherein

the position recording apparatus transmits to the terminal the encrypted position information of the mobile body, which was recorded at the position recording apparatus, corresponding to the terminal, based on a request from the terminal, and

wherein the terminal decrypts the received encrypted position information using the key that the terminal retains.

3. (PREVIOUSLY PRESENTED) The position information management system according to claim 1, wherein

upon the position recording apparatus having received a predetermined permission from a first terminal, the position recording apparatus transmits the encrypted position information, which was recorded at the position recording apparatus, of the mobile body corresponding to the first terminal, based on a request from a second terminal, and wherein

when the second terminal has directly received the key from the first terminal, the second terminal can decrypt the encrypted position information.

4. (PREVIOUSLY PRESENTED) The position information management system according to claim 1, wherein

when the position recording apparatus has received predetermined permission information from the terminal, the position recording apparatus transmits the encrypted position information of a mobile body corresponding to the terminal, to a position information service center, based on a request from the position information service center providing predetermined services to the terminal, and

after the position information service center has received the key retained by the terminal from the terminal, the position information service center decrypts the encrypted position information, executes a predetermined process for the decrypted position information and transmits the result of the process to the terminal.

5. (PREVIOUSLY PRESENTED) The position information management system according to claim 1, wherein

after the position recording apparatus has received the key retained by the terminal from the terminal, the position recording apparatus, based on a request from the terminal, decrypts the encrypted position information of a mobile body corresponding to the terminal using the key, executes a predetermined process for the decrypted position information and transmits the result of the process to the terminal.

6. (PREVIOUSLY PRESENTED) The position information management system according to claim 1, wherein

after the position recording apparatus has received the key retained by the terminal from the terminal, the position recording apparatus, based on a request from the terminal, decrypts the encrypted position information of a mobile body corresponding to the terminal using the key and transmits the decrypted position information to a position information service center providing predetermined services to the terminal, and wherein

the position information service center executes a predetermined process for the decrypted position information and transmits the result of the process to the position recording apparatus, and wherein

the position recording apparatus transmits the result of the process to the terminal.

7. (PREVIOUSLY PRESENTED) The position information management system according to claim 1, wherein

after the position recording apparatus has received predetermined permission information from the terminal, the position recording apparatus, based on a request from a third

party, decrypts the encrypted position information of a mobile body corresponding to the terminal using the key, executes a predetermined process for the decrypted position information and transmits the result of the process to the third party.

8. (ORIGINAL) The position information management system according to claim 7, wherein

the predetermined process is a process for responding to a query relating to a mobile body corresponding to the terminal.

9. (PREVIOUSLY PRESENTED) The position information management system according to claim 8, wherein

the position recording apparatus has a guarantee function for the response.

10. (ORIGINAL) The position information management system according to claim 8, wherein

the query is at least one of "where is the current position of the mobile body", "whether the mobile body is/was at a designated place", "whether the mobile body is/was at a designated place on a designated date at a designated time", "where is the position at which the mobile body was on a designated date at a designated time" and "on which data and at what time the mobile body was at a designated place".

11. (ORIGINAL) The position information management system according to claim 1, wherein

the terminal comprises a plurality of encryption means, and is capable of switching the encryption means for encrypting the position information, based on the position of the terminal and/or the time, or on an instruction from a mobile body.

12. (ORIGINAL) The position information management system according to claim 1, wherein

the terminal comprises a personal authentication means for a mobile body, and wherein when a personal authentication is successfully completed, the terminal can measure the position of the mobile body, encrypt the measured position information with predetermined encryption means and transmit the encrypted position information.

13. (PREVIOUSLY PRESENTED) The position information management system according to claim 1, wherein

when the position recording apparatus receives the key from the terminal and decrypts the encrypted position information using the key,

the position recording apparatus stores in a temporary memory the key, the decrypted position information and the result of a predetermined process executed for the decrypted position information and erases from the temporary memory the key, the decrypted position information and the result of the process after transmitting the result of the process to the terminal.

14. (ORIGINAL) The position information management system according to claim 13, wherein

the position recording apparatus executes the predetermined process.

15. (ORIGINAL) The position information management system according to claim 13, wherein

the position recording apparatus transmits the decrypted position information to a position information service center providing predetermined services utilizing the position information and receives from the position information service center the result of the predetermined process executed by the position information service center.

16. (PREVIOUSLY PRESENTED) A terminal comprising:
a measuring unit measuring the position of a mobile body;
an encryption unit encrypting measured position information by predetermined encryption means;

a communication unit transmitting the encrypted position information to a position recording apparatus that records the encrypted position information, remotely located from the terminal, from the terminal through a radio network; and

a decryption unit having a key for decrypting encrypted position information after receiving the encrypted position information from the position recording apparatus via the communication unit,

wherein the terminal sends the key to the position recording apparatus only after the terminal allows the position recording apparatus to decrypt the recorded encrypted position information.

17. (PREVIOUSLY PRESENTED) A position recording apparatus remotely located from a terminal of a mobile body, the position recording apparatus comprising:

a communication unit receiving encrypted position information relating to the position of at least one mobile body, transmitted through a radio network from the terminal of the mobile body; and

a database in which the position information is recorded in an encrypted state, wherein the position recording apparatus can decrypt the recorded encrypted position information only after the terminal sends a key to allow the position recording apparatus to decrypt the recorded encrypted position information and the position recording apparatus receives the key from the terminal.

18. (PREVIOUSLY PRESENTED) The position recording apparatus according to claim 17, further comprising:

an acquisition unit acquiring the position information recorded in the database, in response to a predetermined request, wherein

the communication unit transmits the acquired position information from the communication unit in the encrypted state.

19. (PREVIOUSLY PRESENTED) The position recording apparatus according to claim 17, further comprising:

an acquisition unit acquiring the position information recorded in the database, in response to a predetermined request; and

a decryption unit decrypting the acquired encrypted position information, wherein when the decryption unit receives, together with the request, a key decrypting the encrypted position information, the decryption unit decrypts the acquired encrypted position information and transmits the decrypted position information.

20. (PREVIOUSLY PRESENTED) The position recording apparatus according to claim 17, further comprising:

an acquisition unit acquiring the position information recorded in the database, in response to a predetermined request;

a decryption unit decrypting the acquired encrypted position information; and

a processing unit executing a predetermined process for the decrypted position information, wherein

when the decryption unit receives, together with the request, a key for decrypting the encrypted position information, the decryption unit decrypts the acquired encrypted position information and the processing unit transmits the result of the predetermined process executed for the decrypted position information.

21. (PREVIOUSLY PRESENTED) The position recording apparatus according to claim 20, further comprising:

a temporary memory storing the key, the decrypted position information and the result of the process; and

an erasing unit erasing the key, the decrypted position information and the result of the process from the temporary memory after transmitting the result of the process.

22. (PREVIOUSLY PRESENTED) A method of managing position information of a mobile body, comprising:

receiving encrypted position information relating to the position of at least one mobile body, transmitted through a radio network from a remote terminal of the mobile body; and

recording the encrypted position information in an encrypted state,

wherein the previously recorded encrypted position information is decrypted only after the remote terminal sends a key to decrypt the recorded encrypted position information and the key is received from the terminal.

23. (PREVIOUSLY PRESENTED) A method of decrypting position information of a mobile body, comprising:

transmitting an encrypted position of the mobile body from to an apparatus that is separate from the mobile body;

storing the encrypted position of the mobile body in an encrypted state in the apparatus;

transmitting a key used for decrypting the encrypted position from the mobile body to the apparatus.